JAN 3 1 2007

FAX TRANSMISSION
DATE:
PTO IDENTIFIER: Application Number 10/585,703 Patent Number
Inventor: Stefan Bitterlich et al.
MESSAGE TO: US Patent and Trademark Office
FAX NUMBER: (571) 273-8300
FROM: CONNOLLY BOVE LODGE & HUTZ LLP
Ashley I. Pezzner
PHONE: (302) 658-9141
Attorney Dkt. #: 13156-00063-US
PAGES (Including Cover Sheet): 9
Certificate of Transmission (1 page) Transmittal of the Translation of the International Preliminary Report on Patentability (2 pages) Copy of the Translation of the International Preliminary Report on Patentability (5 pages)
If your receipt of this transmission is in error, please notify this firm immediately by collect call to sender at (302) 658-9141 and send the original transmission to us by return mail at the address below.
This transmission is intended for the sole use of the individual and entity to whom it is addressed, and may contain information that is privileged, confidential and exempt from disclosure under applicable law. You are hereby notified that any dissemination, distribution or duplication of this transmission by someone other than the intended addressee or its designated agent is strictly prohibited.
CONNOLLY BOVE LODGE & HUTZ LLP 1007 North Orange Street, P.O. Box 2207, Wilmington, Delaware 19899 Telephone: (302) 658-9141 Facsimile: (302) 658-5614
,

RECEIVED CENTRAL FAX CENTER

JAN 3 1 2007

Docket No.: 13156-00063-US

NO. 6154

(PATENT)

P. 2

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of: Stefan Bitterlich et al.

Application No.: 10/585703

0/585703 Confirmation No.: N/A

Filed: July 11, 2006

Art Unit: N/A

For: COMPOSITE MEMBRANE

Examiner: Not Yet Assigned

Transmittal of the Translation of the International Preliminary Report on Patentability

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Dear Sir:

Applicant submits herewith the Translation of the International Preliminary Report on Patentability issued in the corresponding International Application. The International Examiner has deemed claims 1-11 to have novelty, inventive step and industrial applicability. Each reference cited in the International Report on Patentability has been cited by the applicant in an Information Disclosure Statement filed in the above captioned application. Applicant has not received a notification of Missing Requirements.

Applicant believes no fee is due with this submission. However, if a fee is due, please charge our Deposit Account No. 03-2775, under Order No. 13156-00063-US from which the undersigned is authorized to draw.

Application No. National Phase of PCT/EP2005/000047
First Preliminary Amendment

Docket No.: 13156-00063-US

Respectfully submitted,

Ashley I. Pezzner

Registration No.: 35,646

CONNOLLY BOVE LODGE & HUTZ LLP

1007 North Orange Street

P.O. Box 2207

Wilmington, Delaware 19899

(302) 658-9141

(302) 658-5614 (Fax)

Attorney for Applicant

•		From the INTERNATIONAL BUREAU	RECEIVED
PC'	T	То:	CENTRAL FAX CENTER
NOTIFICATION OF TRA			JAN 3 1 2007
OF THE INTERNATIONAL FRE ON PATENTAB (CHAPTER I OR CH OF THE PATENT COOPER. (PCT Rules 44bis.3(c)	LIMINARY REPORT ILITY APTER II ATION TREATY)	ISENBRUCK, Günter ISENBRUCK BÖSL HÖRSCHLER WICHMA Theodor-Heuss-Anlage 12 68165 Mannheim ALLEMAGNE	NN HUHN
Date of mailing (day/month/year) 28 December 2006 (28.12.20	Isanbruck I Bösl I Hörsb Wichmann I Huhn, Paten Theodor-Heuss-Anlage D-88165 Mapobeir	ler i hwâlte 12	B2
Applicant's or agent's file reference B03/0633PC	0 4. Jan. 2007	IMPORTANT NOTIFICATION	Sekr C
International application No. PCT/EP2005/000047	Frist: Vorfrist:	International filing date (day/month/year) 05 January 2005 (05.01.2005)	Ablg Ablg
Applicant	BASFAKTIENGES	SELL'SCHAFT et al	
		•	
1. Transmittal of the translation to	the applicant.		
The International Bureau patentability (Chapter I).		English translation of the international preliminary repo	rt on
	transmits herewith a copy of the	English translation of the international preliminary repo	rf on
2. Transmittal of the copy of the tra		ected Offices.	
	_	ranslation have been transmitted to the following design	nated or elected
KR .			
The following designated or electer translation from the International Br	d Offices, having waived the req ureau only upon their request:	uirement for such a transmittal at this time, will receive	copies of that
EC, EE, EG, EP, ES, FI, GE MA, MD, MG, MK, MN, MW	B, GD, GE, GH, GM, HR, HU,	BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DI ID, IL, IN, IS, JP, KE, KG, KP, KZ, LC, LK, LR, LS, A, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, U, ZA, ZM, ZW	, LT, LU, LV,
3. Reminder regarding translation i	nto (one of) the official languag	e(s) of the elected Office(s).	·]
The applicant is reminded that, whe must contain a translation of any an	ere a translation of the internation	nal application must be furnished to an elected Office, nary report on patentability (Chapter II).	that translation
It is the applicant's responsibilit applicable time limit (Rule 74.1).		n translation directly to each elected Office concernicant's Guide for further details.	ed within the
The International Burn	emi of WIPO	Authorized officer	
34, chemin des Co 1211 Geneva 20, S	lombettes	Agnes Wittmann-Regis	
Facsimile No. +41 22 338 82 70		Faccimile No. +41 22 338 82 70	

RECEIVED CENTRAL FAX CENTER

JAN 3 1 2007

PATENT COOPERATION TREATY

TRANSLATION INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

				· · · · · · · · · · · · · · · · · · ·
Applicant's or agent's fi B03/0633PC		FOR FURTHER A	CTION	See Form PCT/IPEA/416
International application No. Internati		International filing da	te (day/mont/s/year)	Priority date (day/month/year)
		05.01.200	5	13.01.2004
·	essification (IPC) or nat			
	, B01 J20/			
Applicant				
	ngesellsch	AFT		
	s the international proli 35 and transmitted to the			International Preliminary Examining Authority
2. This REPOR	T consists of a total of	4	sheets, includin	ng this cover sheet.
	also accompanied by A			
5 2				sbeeta, aa follows:
8 KZ (4	ent to the applicant and sheets of the descrip			amended and are the basis for this report and/or
· · <u>K</u>				nle 70.16 and Section 607 of the Administrative
				nsiders contain an amendment that goes beyond in item 4 of Box No. I and the Supplemental
, I /		Bureau anivi a total of	findicate type and number	er of electronic carrier(s))
۱۰ اـــا ۱۰	THE THE THE THREETHE		American () ha sim maille.	·
1	end sharring to an arrange	- madahla farm ani	a indicated in the County	, containing a sequence listing and/or tables emental Box Relating to Sequence Listing (see
	tion 802 of the Adminis		о наменем из ше эпри	ourses now treating as a designed prouting (see
4. This report c	ontains indications relat	ing to the following iter	ns: .	
Box	No. I Basis of th	e report		
Box :	No. II Priority			
Box:	No. III Non-establ	ishment of opinion with	regard to novelty, inven	tive step and industrial applicability
Box	No. IV Lack of un	ity of invention		
Box Box		statement under Article nd explanations supporti		elty, inventive step or industrial applicability;
Box :	No. VI Certain do	curnents cited		
Вох	No. VII Certain de	fects in the international	application	
Box	No. VIII Catain ob	servations on the interna	nional application	
Date of submission of the demand Date of completion of this report				
Name and mailing address of the IPEA/EP			Authorized officer	
Facsimile No.		•	Telephone No.	

Form PCT/IPEA/409 (cover sheet) (January 2004)

International application No.					
INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY		NTABILITY	PCT/EP2005/000047		
	Data di la constanti				
Box No. 1					
	 With regard to the language, this report is based on the international application in the language in which it was filed, unless otherwise indicated under this item. 				
	This report is based on translations from the original language which is the language of a translation furnished for the purpo	e into the following langu ses of:	age		
	international search (Rule 12.3 and 23.1(b))				
	publication of the international application (Rule 12.4)				
	international preliminary examination (Rule 55.2 and/o		_		
 With regard to the elements of the international application, this report is based on (replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report): 					
	the international application as originally filed/formished				
	the description:				
	pages 1-15		as originally filed/furnished		
	pages*				
	pages*				
	, <u></u>				
	the claims:		as originally filed/fornished		
	nos.				
	MOE.®		together with any statement) under Article 19 03.01.2006 with letter		
	Nos-1-II				
I _	nos.*	received by this Authori	ty on		
L	the drawings:				
	sheets		as originally filed/foreished		
	ahocts*	received by this Authori	ty on		
	sheets*	received by this Authori	ty on		
	a sequence listing and/or any related table(s) — see Suppleme	ental Box Relating to Seq	sence Listing.		
\	The amendments have resulted in the cancellation of:				
• -	the description, pages				
	the claims, nos.				
ļ					
	the drawings, sheets/figs				
	any table(s) related to sequence listing (specify):		and trend below had see been made above		
⁴ [This report has been established as if (some of) the amond they have been considered to go beyond the disclosure as fil	ments annexed to this re- led, as indicated in the Su	port and using below had not been made, since pplemental Box (Rule 70.2(c)).		
1	the description, pages				
	the claims, nos.				
	the drawings, sheets/figs				
	the sequence listing (specify):				

FORM PCT/IPEA/409 (Box No. I) (January 2004)

any table(s) related to sequence listing (specify):

If item 4 applies, some or all of those sheets may be marked "superseded."

RECEIVED CENTRAL FAX CENTER

JAN 3 1 2007

	INTRO	NATIONAL PRELI	MINARY	REPORT ON PATENTABILITY	International application No.	047
	INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY PCI/EP2005/00 Tox No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability;					J4/
Box	No. V	Kessoned statemen citations and expla	A raberu m ua enotran	rlicle 35(2) with regard to bovelty, thren pporting such statement	die 21sb or monstrat abbresom(A)	
1.	Statement					
	Novelty	(14)	Claims	1-11		_ YES
			Claims		· · · · · · · · · · · · · · · · · · ·	_ NO
	Inventiv	e step (IS)	Claims	1-11		YES
			Claims			_ NO
	Industria	al applicability (IA)	Claims	1-11		_ YES
			Claims			_ NO
2.	Citations an	d explanations (Rule	70.7)			
_		•		akes reference to the	ne following	
		document:			,	
		2004	•			
	D1:	GB-A-2 34	i 0 112	2 (EXXON CHEMICAL PA	ATENTS INC.), 16	
		February		•		
		_		Samuel St. St. Commission and Commission and Commission and Commission and Commission and Commission and Commis	معتبها والمستادين والمعادة والمادات	aupanes es
	1.	Claims 1	-11 me	eet the requirements	of PCT Article	
		33(1) bed	cause	their subject matte	er is novel,	
		involves	an i	nventive step and is	s industrially	
		applicab.	le.			
	1.1	The reas	ons t	herefor are as follo	: ewc	
		According	g to	claim 1 of the prese	ent application,	
		the pres	ent c	omposite membrane c	omprises	
		(A) an a	symme.	trically constructed	d substrate and	
		(B) "a p	orous	separation layer c	onsisting of an	
	•	MFI-type	zeol	ite" (highlighting	in bold by the	
		examiner).			
		•			· ·	
				Dl discloses a comp		
				s a substrate, comp		
	•	separati	on la	yer (see also point	2.2 in the	

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No. PCT/EP2005/000047

Box No. V

Reasoned statement under Article 35(2) with regard to novely, invantive step or industrial applicability;

citations and explanations supporting such statement

written opinion of 21 October 2005).

D1 does not suggest modifying the structure of the separation layer as defined in the present claim

1. This is made clear, in particular, by the fact that the membranes described in D1 and the membranes according to the invention are used in entirely different processes (D1: isomerisation of xylene mixtures; present application: separation of olefins). The present application and D1 solve different technical problems.

Apart from that, the simplified structure of the present membrane is already sufficient to substantiate an inventive step.

1.2 Documents WO 94/25151 and WO 9401209 (cited on page 2 of the description) thus represent the closest prior art. The two-part form of claim 1 corresponds to the teaching in those documents.

PTO/8B/97 (09-06)

PTO/BERT (09-05)

Approved for use through 03/31/2007. OMB 0851-0031

U. S. Patent and Trademerk Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unlass it displays a valid OMB control number.

Application No. (if known): 10/585,703

Attorney Docket No.: 13156-00063-US

Certificate of Transmission under 37 CFR 1.8

I hereby certify that this correspondence is being facsimile transmitted to the United States Patent and Trademark Office.

on	January.31, 2007
	Date

Amy L. Hamm Typed or printed name of person signing Certificate (302) 658-9141 Telephone Number Registration Number, if applicable

Each paper must have its own certificate of transmission, or this certificate must Note: identify each submitted paper.

Transmittal of the Translation of the International Preliminary Report on Patentability (2 pages)
Notification of Transmittal of Copies of Translation of the International Preliminary Report on Patentability (5 pages)